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In this connection I will add that I have been surprised to see of late in "Nature" letters concerning double Messina and Valentia oranges. I had supposed this to be a familiar observation.

W. WHITMAN BAILEY.

BROWN UNIVERSITY, June 13, 1892.

The American Association for the Advancement of Science will hold its annual meeting at Rochester, New York, beginning August 17th, and continuing for a week. It will be an important meeting for the botanists, because the question of dividing Section F—Biology—into two, one of Botany and one of Zoology, will come up for action. It is very desirable that all botanists who can attend will do so, and that they will present much good matter before the Section and the Botanical Club of the Association, which will hold frequent sessions during the meeting.

Index to Recent Literature Relating to American Botany.

Agave Engelmanni, n. sp. Wm. Trelease. (3d Ann. Rep. Missouri Bot. Gard. 167-168, Plate 55).

Albinos Among Orchids. J. F. Collins. (Gard. & For. v. 299).

The white form of *Habenaria psychodes* is reported from North Anson Village, Maine.

American Ashes—The. Geo. B. Sudworth. (Hardwood, i. No. 10).

Aphelandra tetragona, var. *imperialis*. H. Gærdt and L. Wittmack. (Gartenflora, t. 1354).

Arundinella—Sur les Caracteres des. H. Baillon. (Bull. Mens. Soc. Linn. Paris, i. 1023, 1024).

Asclepias glaucescens and *A. elata*—*Notes on*. J. N. Rose. (Bot. Gaz. xvii. 193).

Asplenium montanum. (Meehan's Monthly, ii. 97, with colored plate).

Begonia Baumanni. L. Wittmack. (Gartenflora, t. 1348).

A new species from Bolivia.

Boltonia latisquama. (Gard. & For. v. 268 illustrated).

Cathestechum—Sur l'organisation du Genre. H. Baillon. Bull. Mens. Soc. Linn. Paris, i. 1028-1030).

Champignons parasites de la Vigne—Sur quelques. P. Viala et

C. Sauvageau. (Ann. de l'Ecole Nat. D'Agric. de Montpellier vi. 135-151 ; two plates).

Pyrenochaeta Vitis, *Phoma Farlowiana* ; *Coniothyrium Berlandieri* and *Diplodia sclerotiorum* and described as new and figured.

Coryanthes macrantha. A. Bode. (Gartenflora, xl. 152-154, figs. 44, 45).

Etude sur le genre Eustichia (Brid.) C. Mueller. Emile Bescherelle. (Journ. de Bot. vi. 177-186.)

The genus *Bryoziphium*, Mitt. is adopted for the species of the northern hemisphere, and three are recognized, *B. Norvegicum*, Mitt. *B. Savatieri*, (Husn.) Mitt. and *B. Mexicanum*, Besch, the latter separated from *B. Norvegicum*, to include Liebmann's specimens from Mexico and Bourgeau's No. 1333.

E. G. B.

Flora of Mt. Desert Island, Maine—Fourth Annual Supplement to the Preliminary List. Edward L. Rand. (Hectograph print, pp. 7, Cambridge, Mass. 1892).

This contains: A list of additions to the Phanerogamia and Pteridophyta, a list of species to be dropped from previous catalogues, a list of the Hepaticæ, determined by Prof. Underwood including *Diplophyllum albicans* here first reported from the United States, one of additional Bryophyta, determined by Herr Warnstorf and Dr. Barnes, and one of additional Algæ, determined by Mr. Collins and Mr. Holden.

Flora of Washington, D. C.—Third List of Additions. Theodor Holm. (Proc. Biol. Soc. Washington, vii. 105-132).

This list, covering the period from April 1886 to April 1892, is supplemental to Professor Ward's "Guide" of 1881, and the subsequent lists of 1885 and 1886. In it are recorded many additional species and new localities for the rarer ones of the region. *Althæa cannabina*, found by Mr. Oliver, escaped from cultivation in vacant lots south of the capitol, and *Brunella laciniata* collected by Mr. Coville near Aqueduct Bridge, appear to be here first reported from America.

Flowers and Insects.—VIII. Charles Robertson. (Bot. Gaz. xvii. 173).

The insects that visit *Isopyrum bitermatum*, *Sanguinaria Canadensis*, *Baptisia leucophæa*, *Trifolium pratense*, *Heuchera hispida* and *Lythum alatum* are noted.

Forestry for 1891—Report of the Chief of the Division of. B. E. Fernow. (Washington, 1892).

A prominent place is given in the above pamphlet to the report on Southern Lumber Pines, *Pinus palustris*, Mill., *Pinus Cubensis*, Grisb., *Pinus echinata*, Mill. and *Pinus Tæda* are illustrated and their geographical distribution is indicated on maps prepared by Chas. Mohr.

Gramineæ unifloræ—Un. H. Baillon. (Bull. Mens. Soc. Linn. Paris, i. 1034-1036).

Notes on *Aciachne pulvinata*, Benth of the Bolivian Andes. *Grasses of Tennessee—Part i.* F. Lamson Scribner. (Bull. Agri. Exper. Station Univ. Tenn. v. No. 2, p.p. 29-119, illustrated).

Professor Scribner has issued a most important paper on the grasses of Tennessee, and one which cannot fail to be of great service to the people of that State. It consists of an annotated list of the native and cultivated species, arranged alphabetically, local and common names being given in detail, in which many of the genera are illustrated. A chapter is devoted to descriptive terms, also freely illustrated, one to the general characters of the order Gramineæ with an exceedingly useful key to the genera, and another to a list of books and papers consulted.

Grasses—Some depauperate. A. S. Hitchcock. (Bot. Gaz. xvii. 194).

Hypericum opacum. C. S. Sargent. (Gard. & For. v. 304, illustrated).

Hyphomycetes—Two New Genera of. A. P. Morgan. (Bot. Gaz. xvii. 190).

Cylindrocladium scoparium and *Synthetospora electa* are described and illustrated.

Lejeuneæ—The North American. F. Stephani. (Bot. Gaz. xvii. 170).

Two new species are described, *Micro-Lejeunea Cardoti* from Louisiana and Mexico and *Eu-Lejeunea Underwoodii* from Florida.

Life Histories of Plants, No. vii.—Contributions to the. Thos. Meehan. (Proc. Acad. Nat. Sci. Phila. 1892, 160-171 reprint-ed).

Interesting and suggestive notes "On the Vitality of some Annual Plants," "On Self-pollination in *Amsonia Tabernæmontana*," "On a special form of Cleistogomy in *Polygonum acre*," "On the Direction of Growth in Cryptogamic Plants," "Tricarpellary Umbellifers," "A Mode of Variation in *Stellaria media*," "On the Sexes of the Holly," "On the Stamens of *Ranunculus abortivus*," "On the Character of the Stamens in *Ornithogalum umbellatum*," and "Note on *Barbarea* in connection with Dichogamy."

Loasaceen—Die Blüthenstände der. I. Urban. (Ber. Deutsch. Bot. Gesell. x. 220-225, t. 12).

Loasaceen—Blüthen und Fruchtbau der. I. Urban. (Ber. Deutsch. Bot. Gesell. x. 259-266, t. 14).

Marchantia polymorpha—The Life History of. L. W. Waechter. (Manchester Mic. Soc. Trans. and Annual Rep. 1891, 56 plate III).

Masdevallia biflora. E. Regel. (Gartenflora, t. 1341, f. 2).

A new species from Brazil.

Masdevallia leontoglossa. (Bot. Mag. t. 7245).

Native of New Grenada.

Masdevallia macrochila. E. Regel. (Garten flora, t. 1344).

A new species from New Grenada.

Missouri Botanic Garden—The. (Am. Gard. xiii. 403, illustrated).

Nectar of the Poinsettia—Chemical Composition of the. W. S. Stone. (Bot. Gaz. xvii. 192).

Nomenclature—On. Sereno Watson. (Bot. Gaz. xvii. 169).

Noticias sobre la Flora de Cacahuamilpa y Plantas colectadas por el Dr. Fernando Altamirano. M. Villada. (Mem. Soc. Cient. Antonio Alzate, v. 213-218).

An account of the plants collected by Dr. Altamirano at Cacahuamilpa, Mexico, with a plate of *Breweria Mexicana*, var., *floribunda*, Villada, the same as published in a recent issue of La Naturaleza.

Notylia—*Sur l'organisation florale d'un.* H. Baillon. (Bull. Mens. Soc. Linn. Paris, i. 1039-1040).

Officinelle Alstræmeriaceen, Agaven und Xyridaccen Brasiliens. Theodore Peekholt. (Pharm. Rund. x. 162).

The various uses and medicinal qualities of the following Brazilian plants are noted: *Bomarea salsilloides*, *B. spectabilis*, *Alstræmeria cunha*, *A. monticola*, *A. caryophyllea*, *Agave Americana*, *Fourcroya gigantea*, *F. Cubensis*, *Xyris laxifolia*, *X. pallida*, and *Abolboda Brasiliensis*.

Oncidium Phalaenopsis. Wm. Hugh Dower. (The Garden xli. 492, with colored plate).

Opisia—*La Fleur femelle de.* H. Baillon. (Bull. Mens. Soc. Linn. Paris, i. 1037-1039).

Oregon Weeds and How to Destroy Them—Some. Moses Craig. (Oregon Agric. Ex. St. Bull. No. 19, 1892).

Illustrations are given of *Sonchus oleracea*, *Madia sativa*, *Anthemis Cotula*, *Verbascum Thapsus*, *Gilia squarrosa*, *Cnicus arvensis*, *Pteris aquilina*, *Avena fatua*, *Erodium cicutarium*, *Chrysanthemum Leucanthemum*, *Cnicus lanceolatus*, *Arctium Lappa*, *Plantago lanceolata*, *Rumex crispus*, *Rumex Acetosella*, *Amarantus retroflexus*, *Chenopodium album*, *Bromus secalinus* and *Agropyrum repens*.

Oreopanax Sanderianum. H. Botting Hemsley. (Gard. Chron. xi. 718).

The description of the *Oreopanax* spp. 19 and 20 of the *Biologia Centrali-Americana Botany* i. p. 575.

Parmelia molliuscula, Ach.—*The Fruiting of.* Thomas A. Williams. (Ann. Rep. of the Miss. Bot. Garden iii. May, 1892; pp. 169-170 t. 57).

This lichen, heretofore reported as always sterile, has been found fruiting in the collections of Dr. Engelmann, collected in the Black Hills in 1856, by Dr. H. Engelmann.

Peach Yellows—The Chemistry of. Erwin F. Smith. (Proc. Am. Pom. Soc. for 1891, reprint).

Phyllocactus crenatus. A. Reichard. (Gartenflora, t. 1347).

Plants of the Pribilof Islands, Behring Sea. C. Hart Merriam. (Proc. Biol. Soc. Wash. vii. 133-150).

This account of the flora of the seal islands is only too brief for the interest it awakens, 92 species of Phanerogams, 4 Pteridophytes and 37 Bryophytes being enumerated. Critical notes by J. M. Rose are given on the following species: *Chrysosplenium alternifolium* (?), *Epilobium anagallidifolium*, *Artemisia Norvegica*, var. *Pacifica*, and *A. vulgaris*, var. *Tilesii*. Dr. Merriam adopts the ornithological nomenclature with three names, but is puzzled what to do with the *Sphagnums* named by Warnstorf when they have four names. E. G. B.

Poa annua—*Les Glumellules du*. H. Baillon. (Bull. Soc. Linn. Paris i. 1034).

Poplars—*American*. (Gar. & For. v. 277).

A full page illustration is given of a group of *Populus trichocarpa* in the Yosemite Valley.

Prosartes Hookeri—*Les Fleurs du*. H. Baillon. (Bull. Mens. Soc. Linn. Paris i. 1031, 1032).

Rhipsalis trigona. G. A. Lindberg. (Gartenflora xl. 38, 39, figs. 15, 16).

Romneya Coulteri. (Gartenflora t. 1359).

Stanhopea graveolens, var. *Lietzei*. E. Regel. (Gartenflora t. 1344).

Synandrospadix vermitoxicus. (Bot. Mag. t. 1242).

Illustration of a large Aroid of the Argentine Republic.

Systematische Gruppierung der Pflanzen—*Die*. H. Hoffman. (Pharm. Rund. x. 164).

A detailed list with dates of methods of plant classification beginning with the Linnæan classification in 1735 and ending with Engler's in 1892.

Taxodium distichum. H. Rottenheusser. (Gartenflora xl. 239-241, figs. 56, 57).

Description and illustrations of the tree and its knees.

Tillandsia Lorentziana. L. Wittmack. (Gartenflora t. 1349).

Tillandsia punctulata. L. Wittmack. (Gartenflora xl. 208, 209, figs. 51, 52).

Transpiration, or the Loss of Water from Plants. C. E. Bessey and A. F. Wood. (Proc. Amer. Assoc. Adv. Sci. xl. 305-308; reprinted as Contr. Bot. Dept. Univ. Nebr. N. S. iv.).

A concise account of the results of recent and early investigation of this subject.

Trees in Winter—The identification of. Aug. F. Foerste. (Bot. Gaz. xvii. 180, with two plates).

Vegetable Pathology—Report of the Chief of the Division of. B. T. Galloway. (Washington, 1892).

With illustrations of *Ceratocystis fimbriata*, the Sweet Potato Black Rot.

Vriesia regina. L. Wittmack. (Gartenflora xl. 160-162, figs. 46, 47).

Walueria pulchella. E. Regel. (Gartenflora t. 1341, f. 1).

A new genus and species of Orchid from Brazil.

Yucca—Detail Illustrations of. Wm. Trelease. (3d Ann. Rep. Missouri Bot. Gard. 159-166, Plates 44-54).

A general description of the genus with a list of the species as recognized by the author, most of them illustrated.

Yukon District—An Expedition Through. Charles Willard Hayes. (National Geographic Magazine iv. 117-162, Plates 18-20).

An appendix of two pages contains a list of Lycopodiums, mosses, hepaticæ and lichens determined by Miss Cummings.